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APPLICATION NO.	FILING D)ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,309	03/25/2004		Naoki Hasegawa	20-137	5487
7:	590	03/21/2006		EXAMINER	
Arnold Interna	ational	SMITH, PHILIP ROBERT			
P.O. Box 129					
Great Falls, VA 22066				ART UNIT	PAPER NUMBER
•				3739	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/808,309	HASEGAWA, NA	ÓKI
Office Action Summary	Examiner	Art Unit	
	Philip R. Smith	3739	
The MAILING DATE of this communication app		the correspondence ac	Idress
Period for Reply	:		; ·
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH b, cause the application to become ABAN	y be timely filed 30) days will be considered time S from the mailing date of this o IDONED (35 U.S.C. § 133).	ly. sommunication.
Status			
1) Responsive to communication(s) filed on 21 F	ebruary 2006.		
<u> </u>	action is non-final.		
3) Since this application is in condition for allowa		s, prosecution as to the	e merits is
closed in accordance with the practice under E			
Disposition of Claims			:
4) Claim(s) <u>1-16</u> is/are pending in the application	·		·
4a) Of the above claim(s) 1,2 and 8-16 is/are w	vithdrawn from consideration	•	: :
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>3-7</u> is/are rejected.	•		:
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			:
9)☐ The specification is objected to by the Examine	er.		•
10) The drawing(s) filed on is/are: a) acc		the Examiner.	:
Applicant may not request that any objection to the			i
Replacement drawing sheet(s) including the correct			FR 1.121(d).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached (Office Action or form P	TO-152.
Priority under 35 U.S.C. § 119	:		
		10(a) (d) as (f)	1
12) Acknowledgment is made of a claim for foreign	i priority under 35 U.S.C. 9 i	19(a)-(d) 01 (1).	; ;
 a) ☒ All b) ☐ Some * c) ☐ None of: 1 ☒ Certified copies of the priority document 	te have been received		·
1. Certified copies of the priority document2. Certified copies of the priority document		alication No	• • •
3. Copies of the certified copies of the prior			l Stage
application from the International Burea	•		. 0.290
* See the attached detailed Office action for a list		eceived.	
•	,		:
	·	· ;	:
Attachment(s)			· ·
1) Notice of References Cited (PTO-892)	4) Interview Sur	mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/l	Mail Date	0.450
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>none</u> .	5) Notice of Info 6) Other:	ormal Patent Application (PT	O-152)

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DETAILED ACTION

Restrictions

[01] Claims 1-2 & 8-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group.

Claim Rejections - 35 USC § 102

[02] The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- [03] Claims 3-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Tokuda (2004/0097791).
- [04] With regard to claims 3-4: Tokuda discloses an endoscope comprising:
 - [04a] an observation unit or image pickup unit ("image pick-up device 37h,"
 [0119]) having an observation field of view and an in-focus position which
 forms a magnified image of an object in the observation field of view such
 that the absolute value of the image scale factor is larger than 1 ("high
 magnification lens group 37g," [0118]); and
 - [04b] an illumination unit ("light guide 37*i*," [0118]) that illuminates an illumination field:

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[04c] wherein the observation field of view of the objective optical system at the in-focus position of the objective optical system does not overlap said illumination field ("the endoscope edge portion 18 is touched to the living body B," [0123] as shown in Figure 12).

- [05] With regard to claim 5: As noted above, Tokuda discloses an endoscopic illumination method in which a light source that does not directly illuminate an observation field of view illuminates an area of tissue ("living body B," [0123]) outside the observation field of view ("concerned portion B'," [0123], and said area of tissue scatters the light from the light source so as to illuminate the observation field of view ("0 to 100μm from the microscopic observing window 24," [0123]).
- [06] With regard to claims 6 & 7: Tokuda discloses an endoscope which is inherently capable of observing epithelial cells of living tissue according to a method comprising: a step in which the illumination system of the endoscope illuminates the underlying parenchymal tissues of the epithelial cells; and a step in which the illumination light emitted from the illumination system is scattered and reflected by the parenchymal tissues ("turned in the living body B") underlying the epithelial cells to illuminate the epithelial cells ("microscopically observed," [0123]).
- [07] Claims 3-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Furnish (2004/0092829).
- [08] With regard to claims 3-4: Furnish discloses an endoscope comprising:
 [08a] an observation unit or image pickup unit (comprising "collection mirror 82."

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[0068], "lens assembly 130" & "collection fiber 20," [0066]) having an observation field of view and an in-focus position which forms a magnified image of an object in the observation field of view such that the absolute value of the image scale factor is larger than 1 (see Figure 22); and

- [08b] an illumination unit (comprising "delivery fiber 18" & "delivery mirror 60," [0046]) that illuminates an illumination field ("illumination spot 32," [0039];
- [08c] wherein the observation field of view ("ellipse 128," [0064]) of the objective optical system at the in-focus position of the objective optical system does not overlap said illumination field ("re-entrant zone 70," [0065], shown in Figure 21).
- [09] With regard to claim 5: As noted above, Furnish discloses an endoscopic illumination method in which a light source that does not directly illuminate an observation field of view illuminates an area of tissue outside the observation field of view ("illumination spot 32"), and said area of tissue scatters the light from the light source so as to illuminate the observation field of view ("re-entrant zone 70").
- [10] With regard to claims 6 & 7: Furnish discloses an endoscope which is inherently capable of observing epithelial cells of living tissue according to a method comprising: a step in which the illumination system of the endoscope illuminates the underlying parenchymal tissues of the epithelial cells; and a step in which the illumination light emitted from the illumination system is scattered and reflected by the parenchymal tissues underlying the epithelial cells to illuminate the epithelial

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cells.

Conclusion

- [11] The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Smit (2004/0186363) discloses measurement of scattered radiation. Alfano (2004/0111031) & Gono (2003/0176768) disclose imaging at various depths.
- [12] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip R. Smith whose telephone number is (571) 272 6087 and whose email address is philip.smith@uspto.gov. The examiner can normally be reached between 9:00am and 5:00pm.
- [13] If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272 4764.
- [14] Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

[15] prs

John F. Leubecker Filmany Examinar